

## CLAIMS

1. A method for remotely using a data-processing object accessible via a server station connected to a communications network, from a  
5 client station connected to the network, the method comprising the following steps:

- sending an object request to the server station, the object request including information for identifying an object accessible via the server station;

- receiving an object response sent by the server station, the object  
10 response including information for describing a user interface, the information being associated with programmed functions, the interface allowing a user to use the object;

- starting up the user interface on the client station;

- executing at least one function associated with at least one element  
15 of the user interface, in response to the activation of the at least one element by a user;

- sending a method-execution request to the server station, in  
response to the execution of at least one programmed function associated with the at least one active element of the user interface, the method-execution  
20 request including the information for identifying the object and at least one command which can be understood by the object.

2. A method according to Claim 1, further comprising the following steps:

- receiving a method-execution response sent by the server station in  
25 response to the method-execution request, the method-execution response containing data indicative of the result of the execution of the at least one command which can be understood by the object;

- decoding the data contained in the method-execution response and updating the user interface, if necessary.

30 3. A method according to Claim 1, wherein the information for identifying an object comprises an electronic address indicative of the storage location of the object.

4 A method according to Claim 3, wherein the electronic address indicative of the storage location of the object is a URL-type address.

5 5 A method according to Claim 1, wherein the information for describing a user interface is data expressed in a data-processing communications language of the "markup language" type.

6 A method according to Claim 5, wherein the communications language is based on the XML language.

7 A method according to Claim 1, wherein the programmed functions associated with the information for describing a user interface are  
10 implemented in the Javascript programming language.

8 A method according to Claim 1, wherein the at least one command consists in the designation of a function of the object, and in the passing of values given to parameters associated with the designated function.

9 A method according to Claim 1, wherein the communications  
15 network is a network of the Internet type.

10 10 A method according to Claim 1, wherein the client station and the server station communicate by using a communications protocol of the "hypertext transfer protocol" (HTTP) type, and in that the messages exchanged between the client station and the server station are HTTP messages.

20 11. A method for executing a function on a data-processing object which can be used, via a server station connected to a communications network, by at least one client station connected to the network, comprising the following steps, implemented in the server station:

25 - receiving an object request originating from a client station, the object request including information for identifying a data-processing object accessible via the server station;

- sending an object response to the client station, the object response including information for describing a user interface, the information being associated with programmed functions, the interface allowing a user to  
30 use the object;

- receiving a method-execution request originating from the client station, the method-execution request including the information for identifying the object and at least one command which can be understood by the object.

12. A method according to Claim 11, further comprising the  
5 following steps:

- executing the at least one command received from the client station, on a data-processing object;

- sending a method-execution response to the client station, the method-execution response containing data indicative of the result of the  
10 execution of the at least one command on the object.

13. A method according to Claim 11, wherein the at least one command, which can be understood by the object and which is contained in the method-execution request, consists in the designation of a function of the data-processing object in question, and in the passing of values given to parameters  
15 associated with the designated function.

14. A method according to Claim 11, wherein the information for identifying an object comprises an electronic address indicative of the storage location of the object.

15. A method according to Claim 14, wherein the electronic  
20 address indicative of the storage location of the object is a URL-type address.

16. A method according to Claim 11, wherein the information for describing a user interface is data expressed in a data-processing communications language of the "markup language" type.

17. A method according to Claim 16, wherein the communications  
25 language is based on the XML language.

18. A method according to Claim 11, wherein, in order to be accessible on the network, the data-processing object is associated in the server station with an electronic document containing the information for describing at least one user interface and the associated programmed  
30 functions.

19. A method according to Claim 18, wherein the electronic document is a document of the "XML document" type.

20. A method according to Claim 18, wherein the electronic address indicative of the storage location of the object is an address of "URL" type associated with the electronic document.

21. A method according to Claim 11, wherein the communications  
5 network is a network of the Internet type.

22. A method according to Claim 11, wherein the client station and the server station communicate by using a communications protocol of the "hypertext transfer protocol" (HTTP) type, and in that the messages exchanged between the server station and the client station are HTTP messages.

10 23. A method according to Claim 11, wherein the programmed functions associated with the information for describing a user interface are implemented in the Javascript programming language.

24. A device for remotely using a data-processing object accessible via a server station connected to a communications network, from a client  
15 station connected to the network, the device comprising:

- means for sending an object request to the server station, the object request including information for identifying an object accessible via the server station;

- means for receiving an object response sent by the server station,  
20 the object response including information for describing a user interface, the information being associated with programmed functions, the interface allowing a user to use the object;

- means for starting up the user interface on the client station;

- means for executing at least one programmed function associated  
25 with one element of the user interface, in response to the activation of the element by a user;

- means for sending a method-execution request to the server station, the method-execution request including the information for identifying the object and at least one command which can be understood by the object.

30 25. A device according to Claim 24, further comprising:

- means for receiving, in response to the method-execution request, a method-execution response sent by the server station, the method-execution

response containing data indicative of the result of the execution of the at least one command which can be understood by the object;

- means for decoding the data contained in the method-execution response; and

5 - means for updating the user interface of the object, if necessary.

26. A device according to Claim 24, including means suitable for implementing a method for remotely using a data-processing object according to any one of Claims 3 to 10.

10 27. A device for executing a function on a data-processing object which can be used, via a server station connected to a communications network, by at least one client station connected to the network, comprising:

- means for receiving an object request, originating from a client station, the object request including information for identifying a data-processing object accessible via the server station;

15 - means for sending an object response to the client station, the object response including information for describing a user interface, the information being associated with programmed functions, the interface allowing a user to use the object identified in advance by the identification information;

20 - means for receiving a method-execution request originating from the client station, the method-execution request including the information for identifying the object and at least one command which can be understood by the object.

28. A device according to Claim 27, further comprising:

25 - means for executing the at least one command, received from the client station, on the data-processing object, and for obtaining a result;

- means for sending a method-execution response to the client station, the method-execution response containing data indicative of the result of the execution of the at least one command on the object.

30 29. A device according to Claim 27, including means suitable for implementing a method for executing a function on a data-processing object, according to any one of Claims 13 to 23.

30. A data-processing system including a device for remotely using a data-processing object, according to Claim 24, and/or a device for executing a function on a data-processing object, according to Claim 27.

31. A device for browsing on the Internet (Web browser) including a  
5 device for remotely using a data-processing object, according to Claim 24.

32. A client station linked to a communications network, including a device for remotely using a data-processing object, according to Claim 24.

33. A server station linked to a communications network, including a device for executing a function on a data-processing object, according to  
10 Claim 27.

34. A communications network including at least one client station according to Claim 32, and at least one server station according to Claim 33.